

NITRATE SEMICONDUCTOR LIGHT EMITTING DIODE

Publication number: JP8335719 (A)

Also published as:

Publication date: 1996-12-17

JP3271645 (B2)

Inventor(s): NAKAMURA SHUJI; UMEMOTO HITOSHI; YAMADA TAKAO

Applicant(s): NICHIA KAGAKU KOGYO KK

Classification:

- international: H01L33/00; H01L33/00; (IPC1-7): H01L33/00

- European:

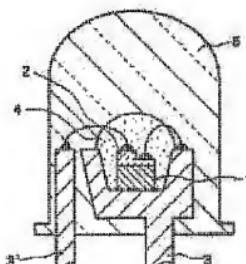
Application number: JP19950140967 19950608

Priority number(s): JP19950140967 19950608

Abstract of JP 8335719 (A)

PURPOSE: To prevent the exfoliation of electrodes and the breaking of wires of a light emitting chip by setting the specific gravity of a first sealing material larger than that of a second sealing material and lowering the forward voltage of the light emitting chip than the forward voltage of it at an initial use.

CONSTITUTION: The nitrate semiconductor layer 2 of a double hetero-structure is deposited on a sapphire substrate 1 by an MOCVD method. Many light emitting chips, with which anode electrodes and cathode electrodes are formed, are prepared on the same surface side of the nitrate semiconductor layer 2. Transparent silicone resin 4 (specific gravity is 1.10) is injected into the inside of the cup of a frame 3.; After the injection of the silicone resin, lead frames 3 and 3' are immersed in the molding die inside which epoxy resin 5 (specific gravity is 1.80) is injected in advance, the resin is cured after removing the die and the LED of an artillery shell shape is made. With this, the forward voltage is lowered so that power consumption is lowered, when the light emitting device is completed.



Data supplied from the **esp@cenet** database — Worldwide